

10/502442

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
31 July 2003 (31.07.2003)

PCT

(10) International Publication Number
WO 03/061712 A1(51) International Patent Classification: A61K 49/14,
C07K 14/00, C12Q 1/68Isabell [DE/DE]; Höhenweg 13, 35091 Cölbe-Bürgeln
(DE).

(21) International Application Number: PCT/EP03/00609

(74) Agent: SCHÜSSLER, Andrea; Kanzlei Huber und
Schüssler, Truderinger Strasse 246, 81825 München (DE).

(22) International Filing Date: 22 January 2003 (22.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02001506.1 22 January 2002 (22.01.2002) EP(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.(71) Applicant (*for all designated States except US*):
DEUTSCHES KREBSFORSCHUNGSZENTRUM
STIFTUNG DES ÖFFENTLICHEN RECHTS
[DE/DE]; Im Neuenheimer Feld 280, 69120 Heidelberg
(DE).(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI,
SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): BRAUN, Klaus
[DE/DE]; Bruchhausen 1B, 69207 Sandhausen (DE). DE-
BUS, Jürgen [DE/DE]; Kreuzstrasse 12, 76698 Stettfeld
(DE). JENNE, Jürgen [DE/DE]; Seckenheimer Strasse
98, 68239 Mannheim (DE). HECKL, Stefan [DE/DE];
Steubenstrasse 28, 69120 Heidelberg (DE). PIPKORN,
Rüdiger [DE/DE]; Adolf-Rausch-Straße 3, 69124 Heidel-
berg (DE). RASTERT, Ralf [DE/DE]; Kaisergässlein 1,
74821 Mosbach (DE). WALDECK, Waldemar [DE/DE];
Tilsiter Strasse 49, 69514 Laudenbach (DE). BRAUN,

Published:

— with international search report
before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendmentsFor two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.(54) Title: DIAGNOSTIC CONJUGATE USEFUL FOR INTRACELLULAR IMAGING AND FOR DIFFERENTIATING BE-
TWEEN TUMOR- AND NON-TUMOR CELLS(57) Abstract: Described is a diagnostic conjugate comprising (a) a transmembrane module (TPU), (b) an address module (AS),
preferably an antisense peptide nucleic acid (PNA), and (c) a signalling module (SM). Said conjugate is useful for intracellular
imaging, preferably via MRI, and, e.g., for differentiating between tumor- and non-tumor cells.

WO 03/061712 A1